

AMENDMENTS TO THE SPECIFICATION:

Please amend the substitute specification filed on November 15, 2004 as indicated below.

Please replace paragraph [0039] starting at page 12, line 24 with the following paragraph:

Figure 1 shows the induction of an in-vivo immune response with several hybrid antigens of the invention in a complex with hsp70. CD8⁺ T cells isolated from mice immunized with hsp70 alone, hsp70 complexed to the epitope SIINFEKL (SEQ ID NO:357), hsp70 complexed to the hybrid antigen SIINFEKLGSGHWDFAWPW (SEQ ID NO:368), or hsp70 complexed to the hybrid antigen SIINFEKLGSGNLLRLTGW (SEQ ID NO:367) were assayed for IFN- γ secretion.

Please replace paragraph [0040] starting at page 12, line 26 with the following paragraph:

Figure 2 shows the induction of an in-vitro immune response using various hybrid antigens of the invention in a complex with hsp70. In particular, hybrid antigens SIINFEKLGSGHWDFAWPW (SEQ ID NO:368) and SIINFEKLGSGNLLRLTGW (SEQ ID NO:367) were assayed.

Please replace paragraph [0041] starting at page 13, line 1 with the following paragraph:

Figure 3 shows Hill plots for determining the affinity of various peptides for hsp70. In particular, the epitope SIINFEKL (SEQ ID NO: 357) and the hybrid antigens SIINFEKLGSGHWDFAWPW (SEQ ID NO:368) and SIINFEKLGSGNLLRLTGW (SEQ ID NO:367) were assayed.

Please replace paragraph [0042] starting at page 13, line 3 with the following paragraph:

Figures 4a and 4b show the results of an in-vitro macrophage T-cell activation assay using various hybrid antigens of the invention alone or in a complex with hsp70. In particular, the hybrid antigens SIINFEKLGSGHWDFAWPW (SEQ ID NO:368) and SIINFEKLGSGNLLRLTGW (SEQ ID NO:367) were assayed.

Please replace paragraph [0043] starting at page 13, line 5 with the following paragraph:

Figure 5 shows in-vivo responses to complexes of hybrid antigens of the invention alone or in a complex with hsp70. In particular, the hybrid antigens SIINFEKLGSGHWDFAWPW (SEQ ID NO:368) and SIINFEKLGSGNLLRLTGW (SEQ ID NO:367) were assayed.

Please replace paragraph [0044] starting at page 13, line 7 with the following paragraph:

Figure 6 shows the blocking of in-vivo responses to one hybrid antigen-hsp70 complex (the hybrid antigen SIINFEKLGSGHWDFAWPW (SEQ ID NO:368) complexed to hsp70) with the addition of a heat shock protein binding domain peptide (NLLRLTGW (SEQ ID NO:359)) alone.

Please replace paragraph [0045] starting at page 13, line 9 with the following paragraph:

Figure 7 shows that smaller doses of a higher affinity heat shock protein binding domain-epitope in a complex with hsp70 can elicit immune responses in vivo. In particular, the hybrid antigens SIINFEKLGSGHWDFAWPW (SEQ ID NO:368) and SIINFEKLGSGNLLRLTGW (SEQ ID NO:367) were assayed.